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Downers Grove Sanitary District

2710 Curtiss Street
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*Providing a Better Environment for South Central
DuPage County*

April 13, 1995

EPA Region 5 Records Ctr.



264192

Larry McDaniel
Plant Superintendent
Tricon Industries, Inc.
2325 Wisconsin
Downers Grove, Illinois 60515

Dear Mr. McDaniel:

Enclosed is an Industrial Wastewater Discharge Permit Application. The current permit issued to Tricon Industries Inc. will expire October 15, 1995. The District's ordinance requires that application for a permit renewal be made no later than 90 days prior to the permit's expiration date, which means this application should be submitted no later than July 15, 1995.

Please note that the only monitoring required for the application is from the inspection manhole located at the front of the building, which is designated as sampling point 001-C in the current permit. We are asking for the monitoring to be done on the total plant flow to determine compliance with the District's local ordinance limits. We have the self monitoring data from your reports to indicate the compliance status in regards to the categorical standards.

If you have any questions, please feel free to call me.

Sincerely,
DOWNERS GROVE SANITARY DISTRICT

Janet M. Buchner
Laboratory Services Director

Enclosures

DOWNERS GROVE SANITARY DISTRICT
INDUSTRIAL DISCHARGE PERMIT APPLICATION/BASELINE REPORT
[40 CFR PART 403 12(b)(1-7)]

Who should complete this application?

Users identified as being Significant Industrial Users (SIU) according to the definition of an SIU in the District's Sewer Use Ordinance:

1. a user with a process flow of 25,000 gallons or more, per average work day;
2. a discharge flow greater than 1 percent of the flow in the District's wastewater treatment system;
3. a user that has in its wastewater incompatible pollutants as defined pursuant to Section 307 of the Clean Water Act, State Statutes, or applicable federal or state rules and regulations;
4. any user found by the District, IEPA or USEPA to have significant impact, either singly or in combination with contributing industries, on the wastewater treatment system, the quality of sludge, the system's effluent quality, or air emissions generated by the system;
5. a user subject to any National Categorical Pretreatment Standard.

Where and when must this application be submitted?

The application must be submitted in a completed form to the District offices, 2710 Curtiss Street, Downers Grove, Illinois 60515. The due date for new users is 90 calendar days prior to initial discharge. For permit renewal the application is due 90 calendar days from the date of the cover letter, unless a different date is required in the cover letter.

Citations following headings in this application refer to the appropriate section and paragraph in the General Pretreatment Regulations for Existing and New Sources, 40 CFR Part 403.12 (b) (1-7), (published in the January 28, 1981 Federal Register) and any amendments to these regulations.

DOWNERS GROVE SANITARY DISTRICT
Application for Industrial Discharge Permit

SECTION I. Identifying Information [403.12 (b)(1)]

- A. Facility Name: TRICON INDUSTRIES
- B. Business Address
Street: 1600 EISENHOWER LANE City: Lisle State: IL.
- C. Location of Permitted Discharge
Street: 2325 WISCONSIN AVE. City: DOWNERS GROVE State: IL.
- D. Name of person completing this application:
Name: LARRY McDANIEL Title: PLANT Supt. Phone: 708-964-2330
- E. Organization of Business: (sole proprietorship, partnership, or corporation)
1. If sole proprietorship, give the name of owner and assumed name, if different than answer to I(A) above.

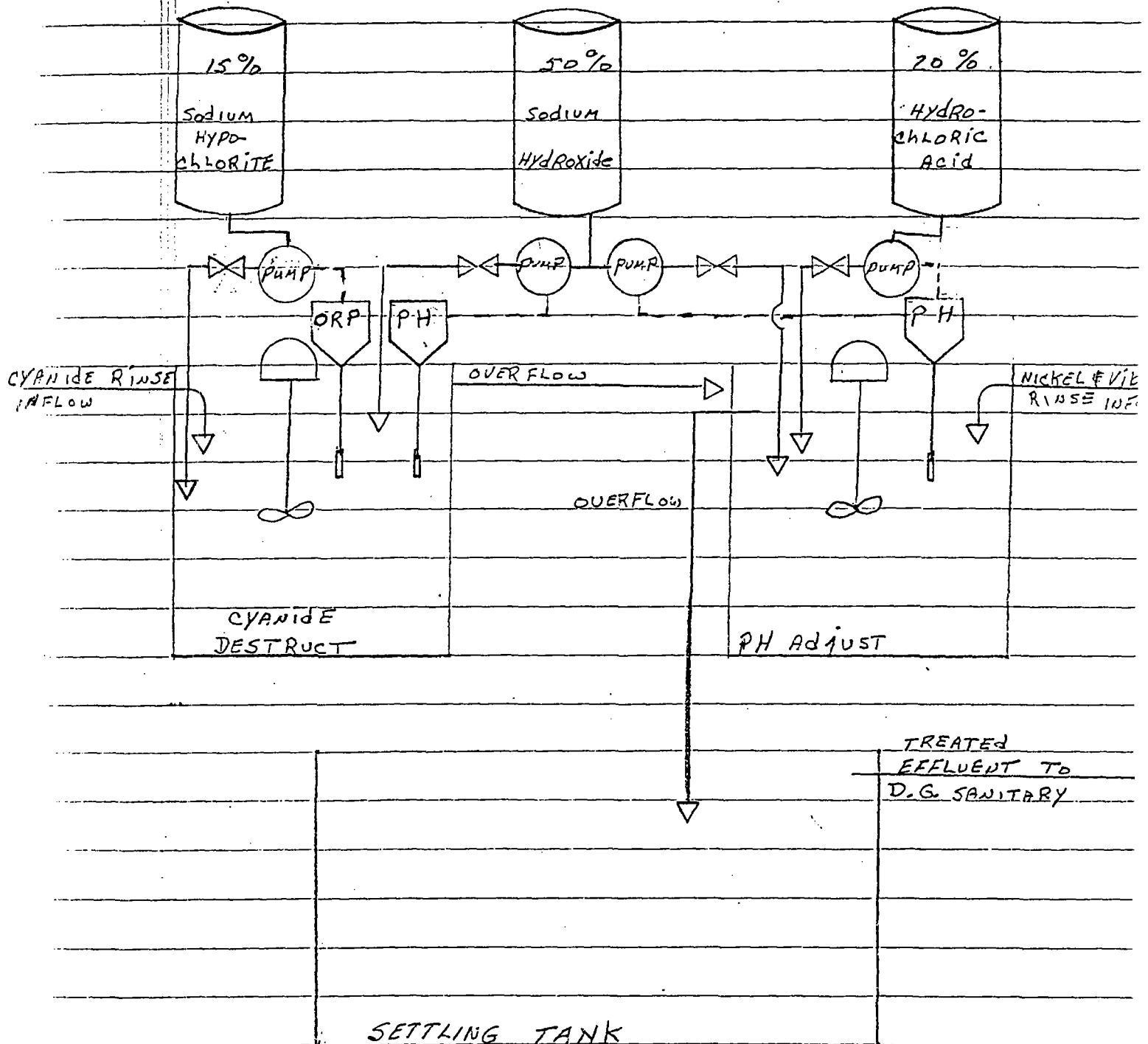
 2. If partnership, give names of general partners and assumed name if different from I(A) above.

 3. If corporation, give state in which incorporated, and the name and address of registered agent.
State: DELAWARE Agent Name: PRENTICE HALL INC.
Agent's Address: 375 HUDSON ST. NY, NY 10014
- F. Number of Employees: 380
(average annual number of employees at permitted facility, all shifts)
- G. Average Annual Days Per Week of Operation: 6
(approximate annual average, including process and clean up schedules)
- H. Time and Duration of Discharge to Sanitary Sewer:
Discharge occurs from 2 A.M. /P.M. to 2 A.M. /P.M.
Circle the Days of the week discharge occurs: S (M) (Tu) (W) (Th) (F) (S)

Section II A Schematic Process diagram

Exhibit A

TRICON INDUSTRIES



- I. List Standard Industrial Codes (SIC) which apply to your facility:
(If more than one applies, list in descending order of importance)

3089 ; 3678 ; 3679 ; 3613

SECTION II. Production Data [403.12 (b)(3)]
(complete only if required in cover letter)

- A. Describe any process operations that result in a discharge of wastewater to the sanitary sewer system and the production rate for each process expressed as an average over the time period chosen:

<u>Operation Description</u>	<u>Average Rate of Production</u>	
	<u>Basis</u> (Choose One)	<u>Amount (exact figure or verifiable estimate)</u>
<u>PLATING OPERATION</u> <u>WITH WASTE TREATMENT</u>	<u>Daily</u>	
	<u>Monthly</u>	
	<u>Yearly</u>	<u>1,816,000 GAL.</u>
	<u>Daily</u>	
	<u>Monthly</u>	
	<u>Yearly</u>	
	<u>Daily</u>	
	<u>Monthly</u>	
	<u>Yearly</u>	

(Attach additional sheets if necessary)

- B. Schematic Process Diagram [403.12 (b)(3)]

Provide a schematic diagram for any process(es) resulting in the discharge of wastewater to the sanitary sewer system.

SECTION III. Wastewater flow rates [403.12 (b)(4)(i & ii)]

- A. The following wastewater flow rates to the Sanitary sewer are to be provided by the Industrial User and must be physically measured unless other verifiable methods are approved by the District for this information.

Maximum Daily Flow (Gals/Day): (report the largest daily flow expected throughout the year as a total for the facility)

15,000 (Gals/Day)

Annual Daily Average Flow (Gals/Day): (report total facility flow during a 24 hour period for an average work day)

10,000 (Gals/Day)

Describe any seasonal, monthly or weekly flow variations:

N/A

B. Industrial Process Discharges

Briefly describe any processes which result in the discharge of wastewater to the sanitary sewer system, the type of discharge, either batch or continuous during operation, the volumes per batch and/or volume per day of wastewater discharged.

Process 1: PLATING OPERATION WITH WASTEWATER
TREATMENT

Discharge is: Continuous (X) Volume per day: 6500 Gallons

Batch () Volume per Batch _____ Gallons Batches/Day _____

Process 2: _____

Discharge is: Continuous () Volume per day: _____ Gallons

Batch () Volume per Batch _____ Gallons Batches/Day _____

Process 3: _____

Discharge is: Continuous () Volume per day: _____ Gallons

Batch () Volume per Batch _____ Gallons Batches/Day _____
(attach additional pages if necessary)

- C. Using the information from plant records, flow metering, water and sanitary sewer bills, show where the water used in the individual processes listed below comes from and is discharged to. Report the information in gallons per day. The final total of water used and discharged should equal zero.

Water Used For:	Water Supply		Water Discharged to	
	DGSD		Other	
	Gals/Day	Source(1)	Gals/Day	To(2)
Sanitary	3383	A	3383	N/A
Processes	6395	A	6395	N/A
Cooling				
Lawn Sprinkling				
Scrubber Water				
Air Pollution Control				
Boiler				
Other (Please describe)				
Total (Gals/Day)				

- Notes: (1) Enter the appropriate code letter indicating the water source:
 (a) DG city water; (b) Westmont city water; (c) Maple Belmont water; (d) Oak Brook water; (e) private well; and
 (f) Other source (please describe) _____
- (2) Enter the appropriate code indicating discharge point:
 (a) DGSD sanitary sewer; (b) storm or surface water;
 (c) product; (d) evaporation; (e) hauled by wastewater hauler;
 (f) other (please describe) _____

- D. Environmental Permits [403.12 (b)(2)] Identify all permits held by this facility:

Permitting Agency	Permit Type	Permit Number
E.P.A.	AIR	84070020
D.G.S.D.	WATER	2
U.S.E.P.A.	SMALL QUANTITY HAZ. WASTE GENERATOR	ILD005084124
E.P.A.	" " " "	0430305017

SECTION IV. Raw Materials and Chemicals

- A. Give technical and common names of raw materials and chemicals that are used in the manufacturing or other processes, that could be discharged to the sanitary sewer. In the case of proprietary compounds, provide the manufacturer's name.

Information for this section can be taken from self-monitoring data, material safety data sheets (MSDS), suppliers of materials, raw material labels and various trade organizations.

<u>Technical Name</u>	<u>Common Name</u>	<u>Manufacturer's Name</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Please attach any additional information on a separate sheet)

- B. Are any of the following pollutants used on the premises, therefore having potential for discharge to the sanitary sewer? If yes, please indicate by checking the appropriate boxes.

<input type="checkbox"/> Acrolein (2)	<input type="checkbox"/> 2-Chloroethyl vinyl ether (19)
<input type="checkbox"/> Acrylonitrile (3)	<input type="checkbox"/> 1,2-Dichlorobenzene (25)
<input type="checkbox"/> Benzene (4)	<input type="checkbox"/> 1,3-Dichlorobenzene (26)
<input type="checkbox"/> Toluene (86)	<input type="checkbox"/> 1,4-Dichlorobenzene (27)
<input type="checkbox"/> Ethylbenzene (38)	<input type="checkbox"/> Hexachloroethane (12)
<input type="checkbox"/> Carbon tetrachloride (6)	<input type="checkbox"/> Hexachlorobutadiene (52)
<input type="checkbox"/> Chlorobenzene (7)	<input type="checkbox"/> 1,2-Dichloropropane (32)
<input type="checkbox"/> 1,2-Dichloroethane (10)	<input type="checkbox"/> 1,3-Dichloropropene
<input type="checkbox"/> 1,1,1-Trichloroethane (11)	<input type="checkbox"/> Methylene chloride (44)
<input type="checkbox"/> 1,1-Dichloroethane (13)	<input type="checkbox"/> Methyl chloride (45)
<input type="checkbox"/> 1,1-Dichloroethylene (39)	<input type="checkbox"/> Methyl bromide (46)
<input type="checkbox"/> 1,1,2-Trichloroethane (14)	<input type="checkbox"/> Bromoform (47)
<input type="checkbox"/> 1,1,2,2-Tetrachloroethane (15)	<input type="checkbox"/> Dichlorobromomethane (48)
<input type="checkbox"/> Chloroethane (16)	<input type="checkbox"/> Trichlorofluoromethane (49)
<input type="checkbox"/> Dichlorodifluoromethane (50)	<input type="checkbox"/> 4-Nitrophenol (58)
<input type="checkbox"/> Dichloro-dibromomethane (51)	<input type="checkbox"/> 2,4-Dinitrophenol (59)
<input checked="" type="checkbox"/> Tetrachloroethylene (85)	<input type="checkbox"/> 4,6-Dinitro O-cresol (60)
<input type="checkbox"/> Trichloroethylene (87)	<input type="checkbox"/> Pentachlorophenol (64)
<input type="checkbox"/> Vinyl Chloride (88)	<input type="checkbox"/> Anthralene
<input type="checkbox"/> 2,2-Trans-Dichloroethylene (30)	<input type="checkbox"/> Benzo (A) anthralene
<input type="checkbox"/> Bis(chloromethyl)ether (17)	<input type="checkbox"/> Benzo (B) fluoranthene
<input type="checkbox"/> Fluoranthene (39)	<input type="checkbox"/> Benzo (K) fluoranthene (75)
<input type="checkbox"/> Fluorene (80)	<input type="checkbox"/> Benzo (A) pyrene (73)
<input type="checkbox"/> Chrysene (76)	<input type="checkbox"/> Indeno (1,2,3-CD) pyrene (83)
<input type="checkbox"/> Pyrene (84)	<input type="checkbox"/> Dibenzo (A,H) anthralene

- | | |
|---|--|
| <input type="checkbox"/> Phenanthrene (81) | <input type="checkbox"/> Benzo (G,H,I) perylene (79) |
| <input type="checkbox"/> Hexachlorobenzene (9) | <input type="checkbox"/> 4-Chlorophenylphenyl ether (40) |
| <input type="checkbox"/> 1,2,4-Trichlorobenzene (8) | <input type="checkbox"/> 3,3-Dichlorobenzidine (28) |
| <input type="checkbox"/> Bis(2-chloroethoxyl)methane(43) | <input type="checkbox"/> Benzidine (5) |
| <input type="checkbox"/> Naphthalene (55) | <input type="checkbox"/> Bis (2-chloroethyl) ether (18) |
| <input type="checkbox"/> 2-Chloronaphthalene (20) | <input type="checkbox"/> 1,2-Diphenylhydrazine (37) |
| <input type="checkbox"/> Isophorone (54) | <input type="checkbox"/> Hexachlorocyclopentadiene (53) |
| <input type="checkbox"/> Nitrobenzene (56) | <input type="checkbox"/> N-Nitrosodiphenylamine (62) |
| <input type="checkbox"/> 2,4-Dinitrotoluene | <input type="checkbox"/> N-Nitrosodimethylamine (61) |
| <input type="checkbox"/> 2,6-Dinitrotoluene (36) | <input type="checkbox"/> N-Nitrosodi-N-propylamine (63) |
| <input type="checkbox"/> 4-Bromophenylphenylether (41) | <input type="checkbox"/> Bis(2-chloroisopropyl)ether |
| <input type="checkbox"/> Bis(2-ethylhexyl) phthalate (66) | <input type="checkbox"/> p-Chloro-M-cresol |
| <input type="checkbox"/> Di-N-octyl phthalate (69) | <input type="checkbox"/> 2-Chlorophenol (24) |
| <input type="checkbox"/> Dimethyl phthalate (71) | <input type="checkbox"/> 2,4-Dichlorophenol |
| <input type="checkbox"/> Diethyl phthalate (70) | <input type="checkbox"/> 2,4,6-Trichlorophenol (21) |
| <input type="checkbox"/> Di-N-Butyl phthalate (68) | <input type="checkbox"/> 2,4-Dimethylphenol (34) |
| <input type="checkbox"/> Acenaphthylene (77) | <input type="checkbox"/> Heptachlor (100) |
| <input type="checkbox"/> Acenaphthene (1) | <input type="checkbox"/> Alpha-endosulfan (95) |
| <input type="checkbox"/> Butyl Benzyl phthalate (67) | <input type="checkbox"/> Beta-endosulfan (96) |
| <input type="checkbox"/> Phenol (65) | <input type="checkbox"/> Endosulfan-sulfate (97) |
| <input type="checkbox"/> 2-Nitrophenol (57) | <input type="checkbox"/> Alpha-BHC (102) |
| <input type="checkbox"/> Aldrin (89) | <input type="checkbox"/> Beta-BHC (103) |
| <input type="checkbox"/> Dieldrin (90) | <input type="checkbox"/> Gamma-BHC (104) |
| <input type="checkbox"/> 4,4-DDE (92) | <input type="checkbox"/> Delta-BHC (105) |
| <input type="checkbox"/> 4,4-DDE (p,p-DDX) | <input type="checkbox"/> Antimony (114) |
| <input type="checkbox"/> Endrin (98) | <input type="checkbox"/> Arsenic (115) |
| <input type="checkbox"/> Heptachlor epoxide (101) | <input type="checkbox"/> Beryllium (117) |
| <input type="checkbox"/> Xylenes | <input checked="" type="checkbox"/> Cadmium (118) |
| <input type="checkbox"/> Toxaphene (113) | <input checked="" type="checkbox"/> Chromium (119) |
| <input type="checkbox"/> Chlordane (91) | <input checked="" type="checkbox"/> Copper (120) |
| <input type="checkbox"/> PCB-4242 (Arochlor 1242) (106) | <input checked="" type="checkbox"/> Lead (122) |
| <input type="checkbox"/> PCB-1254 (Arochlor 1254) (107) | <input checked="" type="checkbox"/> Total cyanides (121) |
| <input type="checkbox"/> PBB-1221 (Arochlor 1221) (108) | <input type="checkbox"/> Mercury (123) |
| <input type="checkbox"/> PCB-1232 (Arochlor 1232) (109) | <input checked="" type="checkbox"/> Nickel (124) |
| <input type="checkbox"/> PCB-1248 (Arochlor 1248) (110) | <input type="checkbox"/> Selenium (125) |
| <input type="checkbox"/> PCB-1260 (Arochlor 1260) (111) | <input checked="" type="checkbox"/> Silver (126) |
| <input type="checkbox"/> PCB-1016 (Arochlor 1016) (112) | <input type="checkbox"/> Thallium (127) |
| <input type="checkbox"/> Endrin Aldehyde (99) | <input checked="" type="checkbox"/> Zinc (128) |
| <input type="checkbox"/> Asbestos (116) | <input type="checkbox"/> Alkyl Epoxides |
| <input type="checkbox"/> 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) (129) | |

Are any of the following materials or conditions characteristic of the wastewater discharge by any process in the facility?

- ☐ Mineral Acids (sulfuric, hydrochloric, nitric, hydrofluoric, chromic and/or phosphoric in any concentration)
- ☐ Radioactive nucleotides
- ☐ BOD greater than 200 mg/L
- ☐ Total suspended solids greater than 250 mg/L
- ☐ Fats, oils and grease greater than 100 mg/L
- ☐ pH less than 5 or greater than 9
- ☐ Strong alkaline solutions (sodium hydroxide, calcium hydroxide)
- ☐ Temperatures greater than 157 degrees F or 65 degrees C.

C. Pollutant Measurement [403.12 (b)(5 ii & viii)]

Attach analytical laboratory reports for the samples and parameters listed in the application below. These reports must include the analytical laboratory's name, address, telephone number, sampling dates, sample types (i.e., composite, grab, automatic or manual composite, etc.), a description of the sampling location and identity of the parameters with units of measurement.

Facility: TRICON INDUSTRIES, INC.
2325 Wisconsin, Downers Grove, Illinois 60515

<u>Sampling Point</u>	<u>Sample Type</u>	<u>Number of Samples</u>	<u>Parameters</u>
001-C (1)	24 hour composite	one	Cadmium T Chromium T Copper T Lead T Manganese T Mercury T Molybdenum T Nickel T Silver T Zinc T
001-C	Grab	one During composite sampling period	Total Cyanide

(1) 001-C is the manhole at the front of the building, where the total plant flow can be evaluated.

Samples shall be representative of the flow and shall be preserved at the time of collection.

SECTION V. Process Wastewater Pretreatment System Operations

- A. Describe the pretreatment given to process wastewaters prior to discharge to the sanitary sewer system. (Attach additional pages if necessary)

See ATTACHMENT

- B. Does the pretreatment facility have a construction permit issued by IEPA?

No () Yes (X)

If yes, what is the IEPA permit number? 1984-EB-1508

- C. Have plans for the pretreatment facility been submitted and approved by the Downers Grove Sanitary District? No () Yes (X) N/A ()

Process Wastewater Pretreatment Systems Operations
Section V. Part A.

5/3/95

Tricon is a manufacturer of electromechanical switches and connectors. As part of the processes we employ, plating of gold, silver, copper and nickel, it is these that require waste water treatment.

Domestic waste water is discharged directly to the Downers Grove sanitary system.

Rinse waters from the plating operations are treated and discharged in a continuous treatment method as follows:

1) Rinse waters from the cyanide plating baths are discharged, by gravity, into the 1st pit. This pit contains a pH controller with sensor and set points of 10.0 - 11.6. An ORP controller with sensor and set points of 562 and 658. The pit is also equipped with a mixer and two (2) pumps with backflow preventers, to add Sodium Hypochlorite and Sodium Hydroxide at the correct times as determined by the pH and ORP controllers. Cyanide is reduced to cyanate through oxidation with the use of Sodium Hypochlorite. Sodium Hydroxide is used to control pH.

To verify sufficient free chlorine levels are maintained, on a daily basis, starch paper is used by comparing developed colors with a chart. Three (3) samples per month are taken and analyzed by an outside laboratory and D.G. Sanitary District. Average levels of cyanide are < .02 mg/L. This effluent overflows to the 2nd pit.

2) Rinse waters from the non-cyanide plating baths are discharged, by gravity, into the 2nd pit. Pit #2 contains a pH controller with sensor and set points of 6.0 - 9.0, a mixer and two (2) pumps with backflow preventers, to add Sodium Hydroxide and Hydrochloric Acid at the correct times as determined by the pH controller. Some precipitation occurs. Effluent from this pit overflows to the settling pit.

3) Settling occurs and effluent is discharged to the D.G. sanitation system. Sludge is removed every two (2) or three (3) years or as determined by measuring its depth. The pits are cleaned and sludge is analyzed, manifested and disposed of in accordance with all state and federal regulations.

- D. Provide the names of personnel who operate and/or supervise the operation of the pretreatment system, their job title and indicate if they are IEPA Class K certified operators.

Name: FRANK MROCKA Title: PLATING SUPERVISOR
Class K certified? Yes(☒) No ()

Name: GARY KAUPIC Title: PLATER
Class K certified? Yes(☒) No ()

Name: LARRY McDANIEL Title: PLANT Supt.
Class K certified? Yes(☒) No ()

SECTION VI. Plant Layout Diagram

Attach a diagram of your facility's property, indicating the location of each building on the premises. For each building, provide a drawing which shows the locations of water meters, any sewage flow meters, sanitary sewer lines and manholes, floor drains, process discharge points, storm sewer lines and manholes and streets.

SECTION VII. Statement of Compliance [403.12(b)(7)]

- A. Based on the information in this permit application, and to the best of your knowledge, is the wastewater discharged from this facility able to meet the applicable pretreatment standards on a consistent basis?

Yes (☒) No (), Remarks: _____

- B. If not, is additional operation and maintenance (O&M) and/or additional pretreatment of the wastewater required to meet the applicable standards?

Yes () No (), Remarks: _____

- C. If the answer to Section VII B above is yes, the Industrial User must submit as part of this application, a compliance schedule or work plan showing the shortest schedule for the User to provide such O & M and/or pretreatment. The compliance schedule given in this application will become attached to and part of the Industrial Discharge Permit. The compliance schedule, or work plan, shall in no case provide for any increment of progress exceeding six (6) months.

Not later than fourteen (14) days following each date in the schedule and the final date of compliance, the User shall submit a progress report to the District including, as a minimum, whether or not it complied with the increment of progress to be met on such date, if not, the date on which it expects to comply with this increment of progress, the reason for the delay, and the steps taken by the User to return construction to the schedule established. In no event shall more than six (6) months elapse between progress reports to the District.

SECTION VIII. Certification [403.12(b)(6)]

This application must be reviewed and certified by a principal executive officer of the discharger as to the accuracy of the contents. If the services of a professional engineer who is familiar with the pretreatment facility were required to in completing this application, their certification as a qualified professional is requested as well.

I (we) declare that I (we) have examined and are familiar with this Industrial Discharge Permit Application and certify that to the best of my (our) knowledge and belief, it is true, correct and complete.

Principal Executive Officer

<u>RALPH W. GRANDLE</u>	<u>EXEC. V.P.</u>
Print Name	Title
<u>Ralph W. Grandle</u>	<u>5-24-95</u>
Signature	Date

Qualified Professional

Print Name	Title
Signature	Date

It is the responsibility of the Industrial User to be aware of and in compliance with all federal, state and local rules, regulations, laws and ordinances, as they pertain to the discharge of wastewaters generated at the User's facility.



Enviro-Test/Perry Laboratories, Inc.

Chicago Dairy & Food Laboratories

319 OGDEN AVENUE DOWNERS GROVE, IL 60515-3142 (708) 963-4672 FAX # (708) 963-4685

IEPA 100186

CERTIFIED LABORATORY REPORT

IDPH 17134

Tricon Industries
Mr. Larry McDaniel
2325 Wisconsin Ave.
Downers Grove, IL 60515

June 06, 1995
Received: 05-22-95
Completed: 06-05-95
P.O. #: 47506

Lab No. Sample Identification

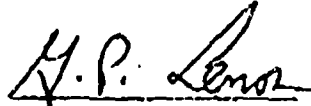
N4538	Grab 001-C	05-22-95 12:40PM
N4539	Comp 001-C	05-22-95

Test Parameter	N4538	N4539
Cyanide (total)	LT .01	
Cadmium		LT .02
Chromium		LT .05
Copper		.18
Lead		LT .025
Nickel		.16
Silver		LT .05
Zinc		LT .05
Manganese		LT .025
Mercury		LT .0005
Molybdenum		LT .25

LT means Less Than

All results are total and in ppm(mg/l) unless otherwise noted; 1ppm = 1000ppb.
Approved for the examination of water, dairy, chemical, microbiological and
container testing by the ILDPH and IEPA.

I certify that I am familiar with the information contained in this report
and that to the best of my knowledge and belief such information
is true, complete and accurate.


G.P. Lenos
Laboratory Director